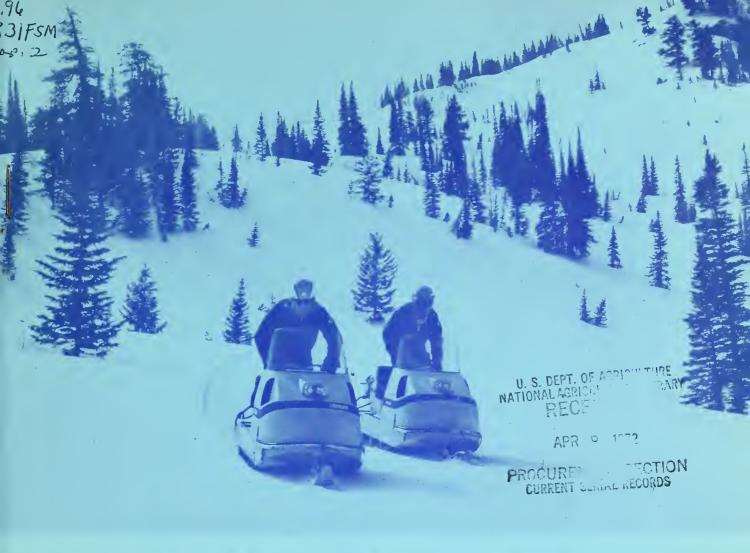
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Do not assume content reflects current scientific knowledge, policies, or practices.





## WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

Prepared by

### U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

COLORADO STATE UNIVERSITY EXPERIMENT STATION STATE ENGINEER of COLORADO and STATE ENGINEER of NEW MEXICO

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service, Corps of Engineers and other Federal, State and private organizations.

MAR. 1, 1972

#### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and reloted data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

#### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

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#### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources, Parliament Building, Victoria, British Columbia

## WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

#### KENNETH E. GRANT

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#### WATERSHED II - ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake Caunty, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Harse-Rush Creek, Central Calarada, Turkey Creek, Pueblo, Bessemer, Olney Baone, Cheyenne, Upper Huerfana, Stanewall, Spanish Peaks, Purgataire, Branson Trinchera, Western Baca, Sautheastern Baca, Twa Buttes, Bent, Timpas, Northeast Prawers, Prowers, Kiawa County, West Otero, East Otera, and Big Sandy Soil Conservation Districts.

#### WATERSHED III -RIO GRANDE WATERSHED (COLORADO)

Describes water supply canditians in Rio Grande, Center, Canejas, Mosca Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.

#### WATERSHED IV -RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe – Pajaaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

#### WATERSHED V - DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

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Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompangre Soil Conservation Districts.

#### WATERSHED VII - COLORADO RIVER WATERSHED

Describes water supply canditions in DeBeque, Plateau Valley, Lawer Grand Valley, Baakcliff, Eagle Caunty, Middle Park, Glade Park, Upper Grand Valley, South Side, and and Mt. Sopris Soil Conservation Districts.

#### WATERSHED VIII - YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Maffat, West Routt, East Routt, Narth Park, White River, and Dauglas Creek Soil Conservation Districts.

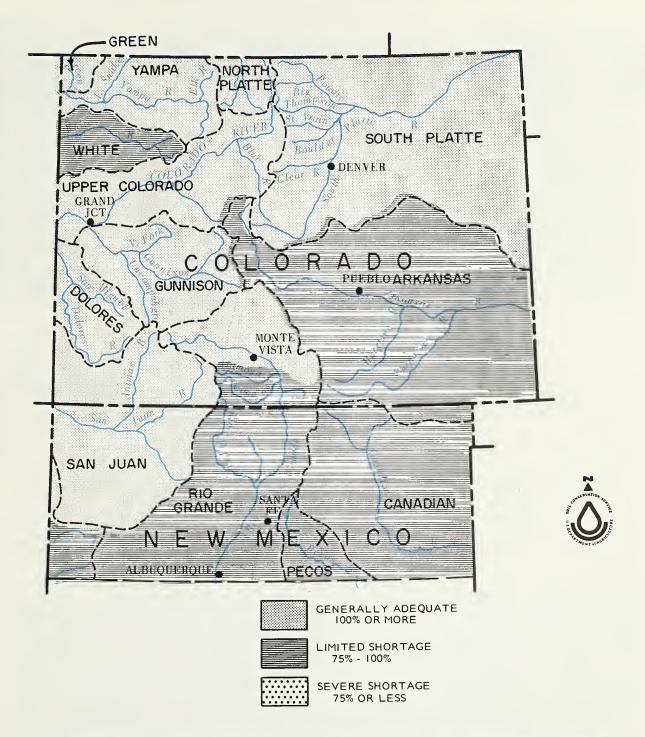
#### WATERSHED IX -LOWER SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Sedgwick, Sauth Platte, Haxtan, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

#### APPENDIX I - SNOW SURVEY MEASUREMENTS

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#### WATER SUPPLY OUTLOOK March 1, 1972 as of



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

#### WATER SUPPLY CONDITIONS

as of

March 1, 1972

SNOWFALL DURING FABRUARY WAS BELOW NORMAL IN ALL AREAS. HOWEVER, MOST OF COLORADO AND NEW MEXICO STILL HAVE NEAR NORMAL SNOWPACK WITH THE EXCEPTION OF THE RIO CHAMA AND SAN JUAN BASINS. THE UPPER COLORADO AND THE SOUTH PLATTE BASINS HAVE THE HIGHEST SNOWPACKS. LOW SNOWFALL AND WARM TEMPERATURES HAVE CAUSED MELTING ON SOUTH FACING SLOPES, ESPECIALLY IN SOUTHERN COLORADO AND NEW MEXICO. RESERVOIR STORAGE IS GOOD IN NORTHERN COLORADO AND POOR ON THE ARKANSAS IN COLORADO AND RIO GRANDE IN NEW MEXICO.

-- FEBRUARY SNOWFALL WAS LESS THAN NORMAL OVER THE ENTIRE

COLORADO STATE AND MUCH LESS THAN NORMAL IN THE SOUTHERN PORTION.

MOST AREAS STILL SHOW ABOUT NORMAL SNOWPACK, BUT PERCENTAGE-WISE

LESS THAN LAST YEAR. STREAMFLOW FORECASTS RANGE FROM 75 TO 110 PERCENT OF THE

1953-67 AVERAGE. RESERVOIR STORAGE IS ABOVE NORMAL IN ALL AREAS EXCEPT THE

ARKANSAS DRAINAGE. THERE STORAGE IS ABOUT 71% OF THE 15 YEAR AVERAGE. SOIL

MOISTURE CONDITIONS ARE REPORTED AS FAIR IN THE IRRIGATED AREAS OF THE STATE

AND MOUNTAIN SOILS CONTAIN NEAR NORMAL MOISTURE. MORE SNOW IS NEEDED.

-- WEATHER IN NEW MEXICO DURING FEBRUARY WAS WARM AND

NEW MEXICO DRY. THIS DID NOT IMPROVE THE MOUNTAIN SNOWPACK.

ALL STREAMFLOW FORECASTS WERE REDUCED DUE TO THE BELOW NORMAL

SNOWPACK. FORECASTS RANGE FROM 85% OF NORMAL ON COSTILLA CREEK TO ABOUT NORMAL

ON RIO HONDO. THE SAN JUAN INFLOW TO NAVAJO IS ABOUT NORMAL, BUT CONSIDERABLY

REDUCED FROM LAST MONTH. FLOW OF THE PECOS SHOULD BE BELOW NORMAL. RESERVOIR

CARRY-OVER STORAGE IS POOR, BUT WILL PROVIDE SOME SUPPLEMENTAL SUPPLIES.

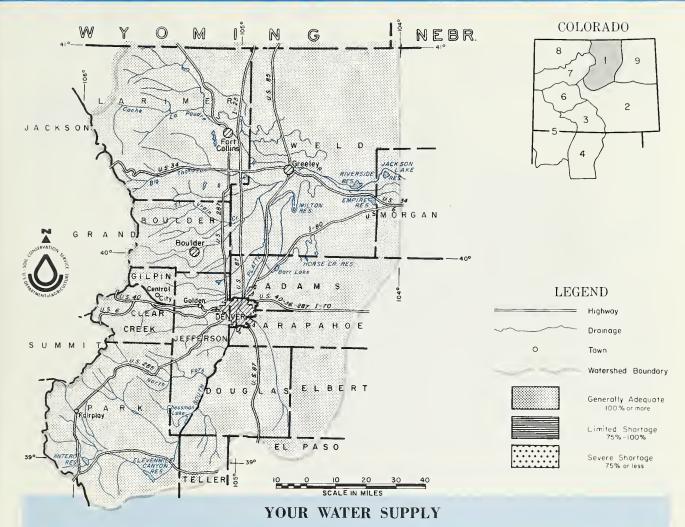
CONSIDERABLY MORE SNOW IS NEEDED TO INSURE ADEQUATE WATER THIS SUMMER.

## WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of

March 1, 1972

### U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



SNOWPACK IS ABOVE AVERAGE ON MOST TRIBUTARIES IN THE SOUTH PLATTE BASIN. THE WATER SUPPLY OUTLOOK DROPPED SLIGHTLY FROM LAST MONTH DUE TO BELOW AVERAGE SNOWFALL IN MOST AREAS. STREAMFLOW FORECASTS FOR THE APRIL THROUGH SEPTEMBER PERIOD RANGE FROM 105% ON THE CACHE LA POUDRE TO 114% ON THE ST. VRAIN. RESERVOIR STORAGE REMAINS THE SAME AS LAST MONTH AT 137% OF NORMAL. THIS IS ABOUT 76% OF THE TOTAL STORAGE CAPACITY.

This report prepared in

JACK N. WASHICHEK and RONALO E. MORELANO
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
OENVER, COLORAGO

M. O. BURDICK...STATE CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

DENVER, COLORADO

OENVER, COLORADO

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Ex-

STREAMILEON TOREGASTS (1000 A	10. 11.)			WAILK SOLLE OULLOOK CELL	ent" With Respect	to Usual Supply
	FORE-	% of	+		Flow F	eriod
FORECAST POINT	CAST Average		Average	STREAM or AREA	Spring Season	Late Season
Big Thompson at Drake (1) Boulder at Orodell	110 55			Bear Creek Coal Creek North Fork of South	Avg. Avg.	Avg. Avg.
Cache La Poudre at Canyon Mouth (2)	225			Platte North Fork of Cache	Avg.	Avg.
Clear Cr. at Golden (3) Saint Vrain at Lyons(4)	130 80			La Poudre Ralston Creek Rock Creek	Avg. Avg. Avg.	Avg. Avg. Avg.
(1) Observed flow plus by pass to power plant	(2) Ohe	armed flow	minus tran	a basin diversions plus municipal and irrigation	n diversions 13	Observed flow n

(1) Observed flow plus by—pass to power plants. (2) Observed flow minus trans—basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

SUMMARY OF SNOW MEASUREMENTS

COLUMNICTURE

(COMPARISON WITH PREVIOUS YEARS)

(OO) II THE DOM MITTING THE TIOOS TE					
RIVER BASIN and/or	Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF			
SUB-WATERSHED	Averaged	Last Year	Average 🕇		
Big Thompson	5	91	114		
Boulder	3	103	112		
Cache La Poudre	8	78	111		
Clear Creek	6	78	91		
Saint Vrain	3	111	114		
South Platte	3	119	110		
<u>.                                    </u>			•		

#### SOIL MOISTURE

JUIL MUISTONE					
RIVER BASIN	Number	THIS YEAR'S MOISTURE as PERCENT OF:			
	Stations	Last Year	Average +		
Big Thompson Boulder Cache La Poudre Clear Creek Saint Vrain South Platte	3 1 2 2 2 2 2	97 73 92 69 89 98	110 95 91 79 117 67		

RECERVOIR CTORAGE (Thousand Ac Et ) THE OF MONTH

KEZEKANIK ZINKAPE (	nousanu	AU. PL.	END OF	MONTH	
RESERVOIR	Usable	Usable Storage			
RESERVOIR	Capacity	This Year	Last Year	Average	
Antero	33.0	15.9	15.9	10.6	
Barr Lake	32.2	24.0	24.0	18.9	
Black Hollow	8.0	4.2	4.2	3.3	
B <b>oyd La</b> ke	44.0	36.1	44.8	27.8	
Cache La Poudre	9.5	7.7	7.9	7.0	
Carter Lake	108.9	97.5	100.1	71.3	
Chambers Lake	8.8	1.6	4.2	2.7	
Cheesman	79.0	79.1	72.6	46.4	
Cobb Lake	34.0	20.5	22.1	9.9	
Eleven Mile	97.8	73.5	96.4	72.0	
Fossil Creek	11.6	8.8	9.1	6.1	
Gross	43.1	28.9	36.0	24.0	

RESERVOIR	STORAGE	(Thousand	Ac.	Ft.)	END OF MONTH
IVE OF IVE OUT	UIUMAL	( I II O II O II II I	710.		LIAD OI LIOIATTI

KESEKTOIK STOKAGE ("	iousunu i	nu. 1 t.)	END OF IT	ONTH	
RESERVOIR	Usable	Usable Storage			
RESERVOIR	Capacity	This Year	Last Year	Average †	
Halligan Horsetooth Lake Loveland Lone Tree Mariano Marshall Marston Milton Standley Terry Lake Union Windsor	6.4 143.5 14.3 9.2 5.4 10.3 18.0 24.4 42.0 8.2 12.7 18.6	5.6 106.5 12.2 7.9 5.3 6.1 14.8 15.9 24.3 5.7 12.1 13.5	1.5 106.3 10.0 8.2 5.1 6.5 16.9 14.0 23.3 6.4 12.7 6.4	3.8 93.6 8.1 6.2 3.9 2.5 14.3 9.5 9.8 4.9	

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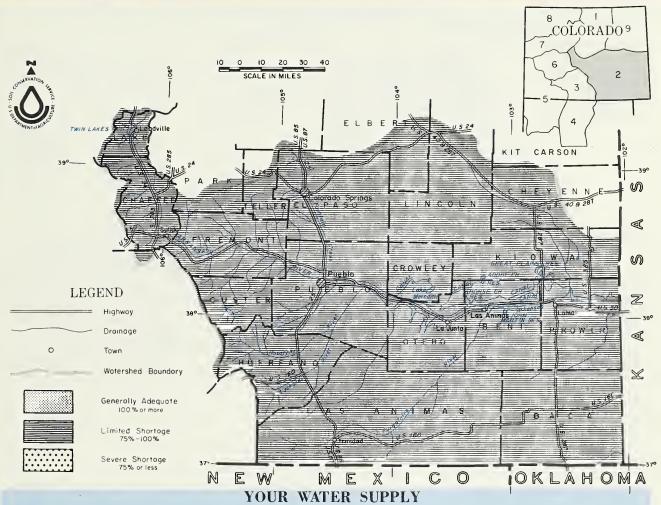


## FIRST CLASS MA

## WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE ARKANSAS RIVER WATERSHED IN COLORADO

as of March 1, 1972

## U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



THE SNOWPACK DROPPED TO NEAR NORMAL ON THE ARKANSAS RIVER BECAUSE OF BELOW NORMAL SNOWFALL DURING THE MONTH. STREAMFLOW FORECASTS ON THE ARKANSAS ARE 94% AT SALIDA AND 100% AT PUEBLO. THE PURGATOIRE IS FORECAST AT 93% AND THE CUCHARAS SLIGHTLY ABOVE AVERAGE. RESERVOIR STORAGE, EXCLUDING TURQUOISE, IS 71% OF THE 1953-67 AVERAGE AND 48% OF LAST YEAR. SOIL MOISTURE IN THE IRRIGATED AREAS IS REPORTED AS FAIR TO POOR.

JACK N WASHICHEK and RONALO E, MORELAND SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE DENVER, COLORADO M. D. BUROICK...STATE CONSERVATIONIST W.D. McCORKLE:...AREA CONSERVATIONIST
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
OENVER. COLORADO LA JUNTA, COLORADO

#### WATER SUPPLY OUTLANK Expressed as "Poor, Fair, Average, Ex-

				WALLE OUT ET OUTEOUT CEIL	ent With Respec	t to Usual Supply.
FORECAST POINT	FORE- CAST	% of Average	Average	STREAM or AREA	Spring Season	Period Late Season
Arkansas nr Pueblo (1) Arkansas at Salida (1) Cucharas nr LaVeta Purgatoire at Trinidad	300 290 14 43	100 94 117 93	298 309 12 46	Apishapa Fountain Creek Grape Hardscrable Creek Huerfano Monument Creek	Avg. Avg. Avg. Avg. Avg.	Fair Fair Fair Fair Fair

(1) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Busk Ivanhoe, Divide, Twin Lakes and Homestake Tunnels and Ewing, Front Pass, Wurtz and Colombine ditches.

#### SUMMARY of SNOW MEASUREMENTS

SOIL	MOISTURE

(COMPARISON WITH PREVIOUS	YEARS)						_
RIVER BASIN Number of Courses			AR'S SNOW PERCENT OF	RIVER BASIN	Number of	THIS YEAR'S MOISTURE as PERCENT OF:	
SUB-WATERSHED	Averaged	Last Year	Average +		Stations	Last Year	Average 7
Arkansas	10	100	103	Arkansas	3	90	82
Cucharas and				Cucharas and			
Purgatoire	2	115	94	Purgatoire	1 1	76	99
	_		,	a surger surger		, ,	
					1 1		

DECEDVAID CTADAGE (Thousand Ac Et )

RESERVOIR STORAGE (Thousand Ac Et )

KEZEKANIK ZINKARE (1	nousanu	AC. FL.	END OF 1	HTON	KEZEKANIK ZINKAPE (II	iousanu i	AU. FL.	END OF M	ОМТН	
	Usable			ge	RESERVOIR	Usable	Usable Storage			
	Capacity	This Year	Last Year	Average T		Capacity	This Year	Last Year	Average T	
Adobe Clear Creek Cucharas Great Plains Horse Creek	61.6 11.4 40.0 150.0 26.9	6.2 NR 42.0	47.9 5.4 108.7 4.3	6.6	John Martin Meredith Model Turquoise Twin Lakes	353.9 41.9 15.0 130.0 57.9	8.5 1.0 58.7	26.0 1.9 50.0 41.8	9.0 3.1 7.0 20.1	
								+ 1953	-1967 period	

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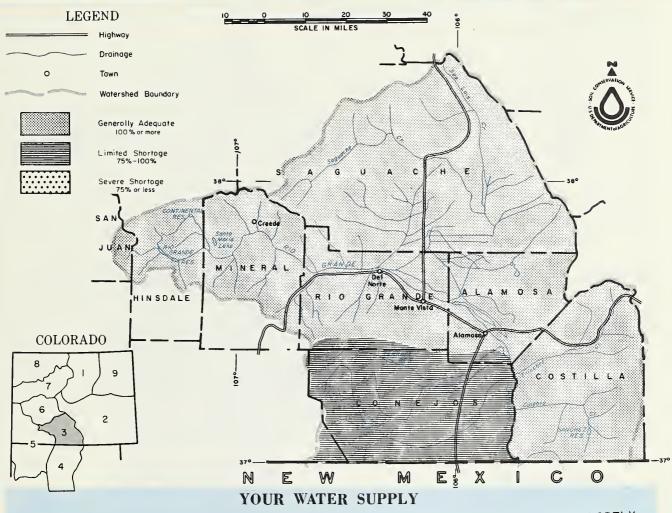


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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO

**as of** March 1, 1972

## U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



SNOWFALL DID NOT KEEP PACE DURING FEBRUARY. CURRENT SNOWPACK IS NOW BARELY NORMAL IN MOST AREAS AND ONLY 76% ON THE CONEJOS. STREAMFLOW FORECASTS HAVE BEEN REDUCED. THEY RANGE FROM 96% ON THE CONEJOS TO 110% ON THE SOUTH FORK. RESERVOIR STORAGE IS 130% OF NORMAL AND WILL BE A GOOD SUPPLEMENT TO SUMMER FLOWS. MORE SNOW IS NEEDED TO INSURE ADEQUATE SUPPLIES THIS SUMMER.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELAND
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
OENVER, COLORAGO

M. O. BURDICK.—STATE CONSERVATIONIST KENNETH A. PITNEY —AREA CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

DENVER, COLDRADO DURANGO, COLDRADO

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	FORE-	% of	+		Flow Period	
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season
Alamosa abv Terrace Conejos nr Mogote (1) Culebra at San Luis (2) Rio Gr. at 30 Mile	58 165 20	94 91 105	62 182 19	Saguache Creek Sangre de Cristo Cr. Trinchera Creek	Avg. Avg. Avg.	Fair Fair Fair
Bridge (3) Rio Gr. nr Del Norte	128	109	117			
(3)	460	105	438			
So. Fork at So. Fork	120	110	110			

(1) Observed flow plus chonge in storage in Platoro Reservoir. (2) Observed flow plus chonge in storage in Sanchez Reservoir. (3) Observed flow plus chonge in storage in Sonto Morio, Rio Grande and Continental Reservoirs.

#### SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF			
SUB-WATERSHED	Averaged	Last Year	Average +	
Alamosa Conejos Culebra Rio Grande	2 3 2 10	97 94 145 134	91 76 115 108	

#### SOIL MOISTURE

RIVER BASIN	of		IS YEAR'S MOISTURE as PERCENT OF:	
	Stations	Last Year	Average +	
Alamosa Conejos Culebra Rio Grande	1 2 2 2	62 102 81 71	79 91 95 92	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

	Usable	Usable Storage			
RESERVOIR	Capacity	This Year	Last Year	Average †	
Continental Platoro Rio Grande	26.7 60.0 45.8	5.8 2.9 16.2	8.5 2.9 40.0	4.4 7.1 12.0	

#### RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

	RESERVOIR STORAGE (THOUSAND AC. 11.) END OF MONTH								
]	RESERVOIR	Usable	U	sable Stora	ge				
Ŧ	RESERVOIR	Capacity	This Year	Last Year	Average +				
	Sanchez Santa Maria Terrace	103.2 45.0 17.7	10.0 6.4 6.0	56.4 10.1 0.0	10.6 5.5 3.7				

+ 1953-1967 period.

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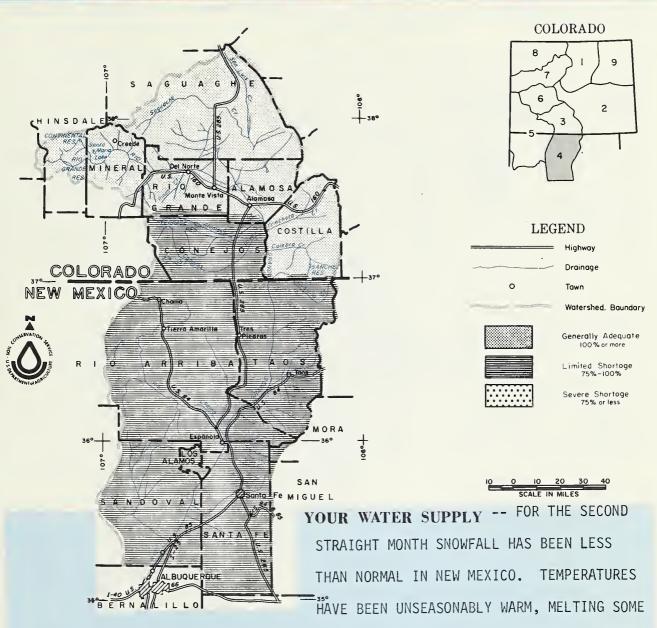


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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

**as of** March 1, 1972

#### U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



OF THE LOW ELEVATION SNOW. STREAMFLOW FORECASTS HAVE BEEN REDUCED AS MUCH AS 20% ON SOME STREAMS. CARRY-OVER RESERVOIR STORAGE IS BELOW THE 15 YEAR AVERAGE. SOILS IN THE IRRIGATED AREAS ARE REPORTED AS FAIR TO GOOD.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELANO
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
OENVER, COLORADO

Lesued by

KENNETH L. WILLIAMS--STATE CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
ALBUQUERQUE, NEW MEXICO
SANTA FE, NEW MEXICO

### WATER SUPPLY OUTLOOK Expressed as "Paar, Fair, Average, Excellent" With Respect to Usual Supply

1,2000 1000 1000 1000 1000 1000				certent with Respect to Osual Supply.				
FORECAST POINT	FORE-		+ Average	STREAM AREA	Flow F			
	CAST	Average		STREAM or AREA	Spring Seasan	Late Seas <i>a</i> n		
Costilla at Cost. (1) Pecos at Pecos Rio Chama to El Vado Rio Gr. at Otowi (2) Rio Gr. at San Mar (2) Rio Hondo nr Valdez Red R. at mouth nr Questa	15 35 160 500 330 15	83 85 85 97 99 100	18 41 188 513 334 15	Embudo Creek Jemez River Mora River Nambe Creek Rio Ojo Caliante Rio Pueblo de Taos Santa Fe Creek	Avg. Avg. Avg. Avg. Avg. Avg.	Fair Fair Fair Fair Fair Fair		

The farecast of the Rio Grande at San Marcial is 57 % of the Average used by the Elephant Butte Irrigation District. (1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in starage in El Vado and Abiquiu Reservoir.

#### SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

(COMPARISON WITH PREVIOUS TE								
RIVER BASIN and/ar			AR'S SNOW PERCENT OF					
SUB-WATERSHED	Averaged	Last Year	Average +					
Pecos Rio Chama Rio Grande, N.M. Rio Hondo Red River	1 4 12 1 2	233 86 147 134 198	44 59 72  93					

#### SOIL MOISTURE

RIVER BASIN	Number of Statians	THIS YEAR'S as PERCE Last Year	
		Last Teal	Average 1
Pecos Rio Chama Rio Grande Red River	2 2 2 1	153 157 112 150	117 114 112 126

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable	U	sable Stora	ige	RESERVOIR	Usable	L	sable Stara	ige
RESERVOIR	Capacity	This Year	Last Year	Average †	RESERVOIR	Capacity	This Year	Last Year	Average †
Alamorgordo Caballo Conchas Elephant Butte	111 344 273 2195	52 17 79 223	57 78 154 362	76 81 163 370	El Vado McMillen-Avalon	195 32	1 13	1 18	4 20

+ 1953-1967 period.

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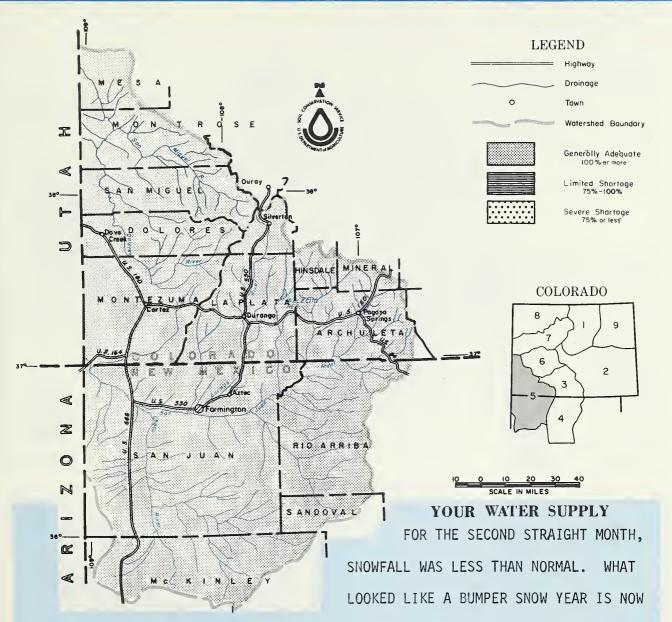
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE MIGUEL DOLORES. ANIMAS. SAN JUAN WATERSH

SAN MIGUEL, DOLORES, ANIMAS, SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

> as of March 1, 1972

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



BARELY NORMAL. STREAMFLOW FORECASTS HAVE BEEN REDUCED 10 to 20 PERCENT.

RESERVOIR STORAGE IS SLIGHTLY ABOVE NORMAL. MORE SNOW IS NEEDED TO INSURE

ADEQUATE SUPPLIES THIS SUMMER.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELANO
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE

OENVER, COLORADO

Issued by

IM, O. BURDICK.—STATE CONSERVATIONIST
OENVER, COLORADO

U. S. DEPARTMENT OF A GRICUITURE - SOIL CONSERVATIONIST
KENNETH A. PITNEY—AREA CONSERVATIONIST
OURANGO, COLORADO

SANTA FE, NEW MEXICO
SANTA FE, NEW MEXICO

THE TOTAL TOTAL OF THE TOTAL T						
FORECAST POINT	FORE- CAST	% of Average	† Average			
Animas at Durango Dolores at Durango La Plata at Hesperus Los Pinos at Bayfield	460 225 25	112 97 104	409 231 24			
(1) Piedra Cr. at Piedra	200	103 86	194 163			
San Juan at Carracas Inflow to Navajo Res.	400	106	379			
(1) (Apr-Jul)	600	97	619			

#### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	·	to Osdai cappiy
	Flow	Period
STREAM or AREA	Spring Season	Late Season
Florida Mancos San Miguel	Avg. Avg. Avg.	Avg. Avg. Avg.

#### (1) Observed flow plus change in storage in Vallicito Reservoir. SUMMARY of SNOW MEASUREMENTS

(	(COMPARISON WITH PREVIOUS YEARS)							
	RIVER BASIN and/or	Number of Courses		AR'S SNOW PERCENT OF				
L	SUB-WATERSHED	Averaged	Last Year	Average +				
	Animas Dolores San Juan	6 4 5	103 88 113	102 97 93				

#### COIL MOICTHE

SUIT MOISTORE			
RIVER BASIN	Number of		S MOISTURE CENT OF:
	Stations	Last Year	Average +
Animas Dolores San Juan	3 3 2	90 98 100	97 92 87

#### RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

1011111	
ge	
A #	ſ

RESERVOIR	STORAGE	(Thousand	Ac.	Ft.)	END OF MONTH
-----------	---------	-----------	-----	------	--------------

RESERVOIR Canacity This Last H	DECEDVOID	Usable	U:	Usable Storage		DESERVOIR	Usable	U	sable Stor	age
Lemon 40 19 26 15 Navajo 1036 880 852 537	KESEKVOIK		This Year	Last Year	Average †	KESEKVOIK		This Year	Last Year	Average
	Lemon Navajo	40 1036	19 880	26 852	537					

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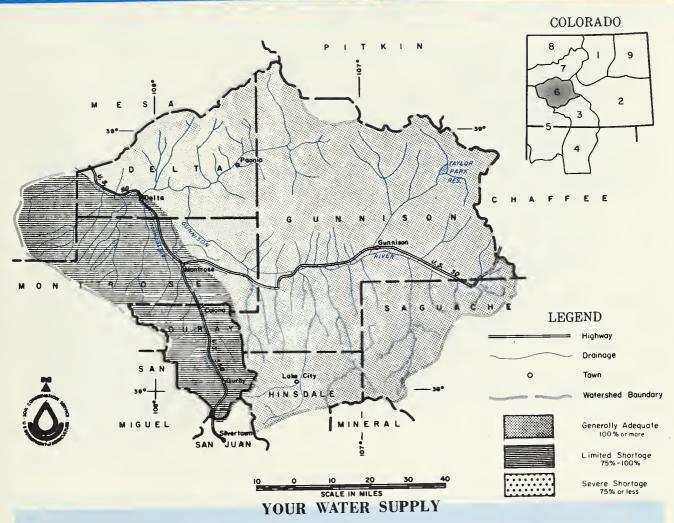


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#### WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of March 1, 1972

## U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



THE MOUNTAIN SNOWPACK DROPPED TO NORMAL OR SLIGHTLY BELOW DUE TO THE BELOW AVERAGE SNOWFALL DURING FEBRUARY. STREAMFLOW FORECASTS ALSO WERE REDUCED. THE GUNNISON SHOULD FLOW ABOUT NORMAL IF SNOWFALL IS AT LEAST NORMAL FOR THE REMAINDER OF THE YEAR. SURFACE CREEK SHOULD FLOW JUST ABOVE NORMAL AND THE UNCOMPANGRE SLIGHTLY BELOW. BLUE MESA RESERVOIR CONTAINS 323,000 A.F. WHICH IS 77% OF LAST YEAR. MOUNTAIN SOIL MOISTURE IS BETTER THAN NORMAL.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELAND

SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE

OENVER, COLORAGO

M. O. BURDICK---STATE CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

OENVER, COLORADO GLENWOOD SPRINGS, COLORADO

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	FORE-	% of	+		Flow Pe	
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season
Gunnison R. inflow to Blue Mesa Res. Gunnison nr Gr. Junction (1) Surface Cr. nr Cedaridge Uncompangre at Colona	740 1150 17 115	96 101 106 89	767 1137 16 129	North Fork of Gunnison Taylor	Avg. Avg.	Avg.

#### SUMMARY of SNOW MEASUREMENTS

COMPARISON WITH PREVIOUS YEARS)

(COMPARISON WITH PREVIOUS YE	ARS)			
RIVER BASIN and/or	Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF		
SUB-WATERSHED	Averaged	Last Year	Average 🕇	
Gunnison Surface Creek Uncompahgre	12 3 3	100 96 82	100 102 100	

#### SOIL MOISTURE

Н	RIVER BASIN	Number		R'S MOISTURE   RCENT OF:		
]		Stations	Last Year	Average +		
	Gunnison Surface Creek Uncompahgre	]	91 89 89	111 106 106		

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

255521612	Usable	Usable Storage			
RESERVOIR	Capacity	This Year	Last Year	Average †	
Blue Mesa Morrow Point Tavlor	941 121 106	323 116	421 116 99	 56	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

KESEKTOIK STOKAGI	L (Thousand 7	10. 11./	END OF I	TONTH	
0555011010	Usable	Usable Storage			
RESERVOIR	Capacity	This Year	Last Year	Average	
		-			

+ 1953-1967 period.

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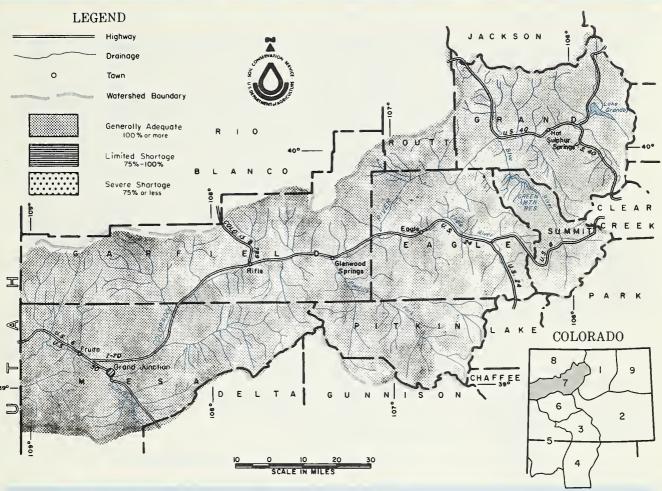


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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE COLORADO RIVER WATERSHED IN COLORADO

as of March 1, 1972

### U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



#### YOUR WATER SUPPLY

SNOWFALL WAS BELOW NORMAL DURING THE MONTH BUT THE SNOWPACK IS STILL SLIGHTLY ABOVE AVERAGE ON ALL BASINS EXCEPT PLATEAU CREEK. THIS AREA IS SLIGHTLY BELOW AVERAGE. STREAMFLOW FORECASTS FOR THE APRIL THROUGH SEPTEMBER PERIOD RANGE FROM 98% TO 112% OF THE 1953-67 AVERAGE. THE COLORADO MAINSTEM AND THE ROARING FORK ARE FORECAST AT 105%. RESERVOIR STORAGE IS ABOUT THE SAME AS LAST YEAR.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELAND

SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE

OENVER, COLORADO

M. O. BURDICK
STATE CONSERVATIONIST

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
OENVER. COLORADO

GLENWOOD SPRINGS, COLORADO

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Ex-

FORESACT BOWT	FORE-	% of	ΑΤ		Flow	eriod	
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season	
Blue ab Gr. Mt. (1) Colo. Rv. inflow to Granby Res. (2) Colo. Rv. nr Dotsero (3) Roar. Fk. at GlSpr. (4) Wm. Fk. nr Par. (5) Will. Cr. inflow to Will. Cr. Res. Colo. nr Cameo (6)	240 225 1450 725 67 45 2200	101 103 105 105 112 98 99	236 219 1375 692 60 46 2216	Brush Eagle River Gypsum Creek	Exc. Exc.	Fair Fair Fair	

(1) Observed flow plus diversions through Roberts Tunnel and chonge in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Loke Granby os furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1) (2) and (5) plus Moffot Ditch and change in Homestoke, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lokes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (4).

SUMMARY of SNOW MEASUREMENTS

SOIL MOISTURE

111

118

(COMPARISON WITH PREVIOUS YEARS)

Williams Fork

Willow

RIVER BASIN and/or	Number of Courses	WATER AS PERCENT OF		
SUB-WATERSHED	Averaged	Last Year	Average +	
Blue River Colorado Plateau Roaring Fork	8 21 3 7	91 83 91 90	109 113 95 106	

3

71

87

#### SOIL MOISTURE

Number of		S MOISTURE CENT OF:
Stations	Last Year	Average †
1	79	96
5	85	92
1	83	112
7 3	103	124
		As PERC   As PERC   Last Year

KFZFKANIK	STORAGE (	Inousand	Ac. Ft.)	END OF MONTH

RESERVOIR	Usable	Usable Storage				
RESERVOIR	Capacity	This Year	Average			
Dillon Granby Green Mountain Homestake	254 466 147 43	236 341 79 10	246 367 74 20	234 233 63		

RESERVOIR	STORAGE (Thousand	Ac. Ft.	END OF MONTH
-----------	-------------------	---------	--------------

RESERVOIR STORAGE (THOUSAND AC. 12.) END OF MONTH						
RESERVOIR	Usable	U	Usable Storage			
RESERVOIR	Capacity	This Year	Last Year	Average †		
Ruedi Williams Fork Willow Creek Vega	101 97 9 32	66 55 8 14	71 49 7 17	27 6 11		

+ 1953-1967 period.

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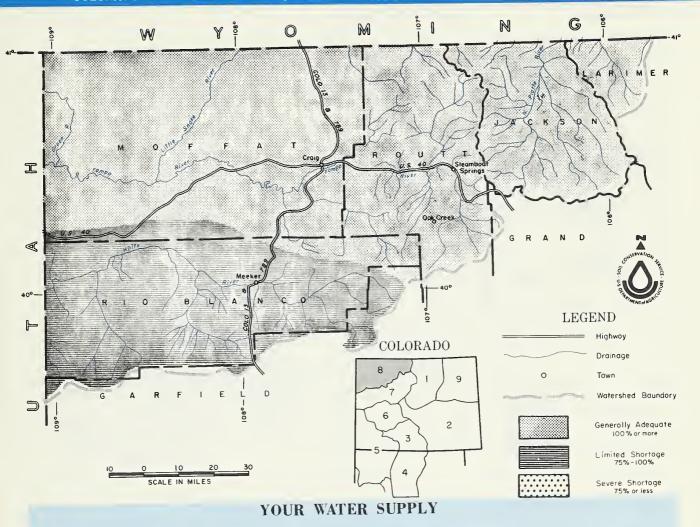


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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



FEBRUARY SNOWFALL WAS LESS THAN NORMAL. WARM TEMPERATURES REDUCED THE LOW ELEVATION SNOWS TO BELOW NORMAL IN MOST PLACES. HIGH WINDS REDISTRIBUTED THE SNOWPACK AND EVAPORATED SOME. STREAMFLOW FORECASTS ARE GENERALLY DOWN FROM LAST MONTH, BUT STILL NEAR THE 15 YEAR NORMAL. THE LITTLE SNAKE AND NORTH PLATTE ARE BOTH BEING FORECAST ABOVE NORMAL. SOIL MOISTURE IS NEAR NORMAL.

This report prepared by

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OENVER. COLORADO

GLENWOOO'SPRINGS, COLORADO

FORECAST POINT	STATEMILLOM LOVECHOLD (1000 W	6. rt.)		
Laramie at Jelm Little Snake at Lily No. Platte at Northgate White nr Meeker Yampa nr Maybell Yampa at Steamboat	FORECAST POINT			†\ Average
	Laramie at Jelm Little Snake at Lily No. Platte at Northgate White nr Meeker Yampa nr Maybell Yampa at Steamboat	120 375 258 250 850	115 135 120 85 100	104 277 215 293 853

### WATER SUPPLY NUTLANK Expressed as "Poor, Fair, Average, Ex-

	WATER SUPPLY UUILUUK cell	ent" With Respect	to Usual Supply.
1		Flow F	eriod
	STREAM or AREA	Spring Season	Late Season
	Canadian River Hunt Creek Illinois River Michigan River Oak Creek Trout Creek	Avg. Avg. Avg. Avg. Avg.	Avg. Fair Avg. Avg. Fair

#### SUMMARY of SNOW MEASUREMENTS

(COMPA	RISON WITH PREVIOUS YE	EARS)			
	RIVER BASIN and/or	Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF		
	SUB-WATERSHED	Averaged	Last Year	Average 🕇	
		2 2 5 2 5	89 72 78 75 82	91 109 116 89 106	

#### SOIL MOISTURE

SOIL MOISTORE				
RIVER BASIN	Number of	THIS YEAR'S MOISTUR as PERCENT OF:		
	Stations	Last Year	Average +	
Laramie North Platte Yampa	2 2 1	92 106 89	91 115 96	

+ 1953-1967 period.

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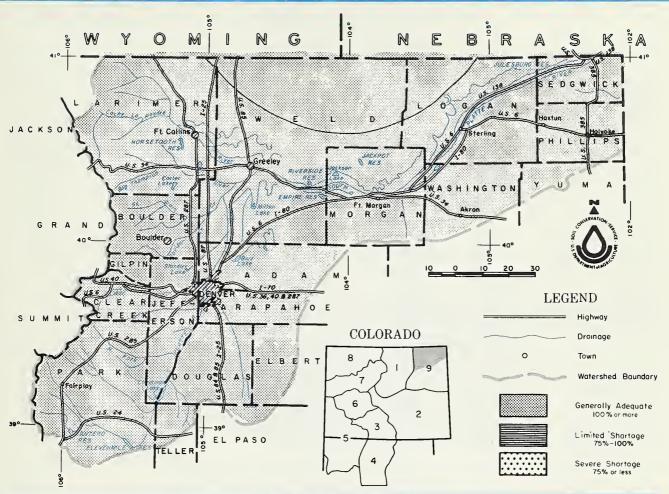


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## WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

**as of** March 1, 1972

### U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



#### YOUR WATER SUPPLY

WATER SUPPLY OUT-LOOK WAS NOT QUITE SO GOOD THIS MONTH. MOUNTAIN SNOWFALL DURING FEBRUARY WAS BELOW NORMAL. FORECASTS DROPPED AS MUCH AS 15% UP AND DOWN THE BASIN. RESERVOIR STORAGE IS STILL EXCELLENT. PRACTICALLY ALL RESERVOIRS CONTAIN MORE THAN THE 15 YEAR NORMAL. MOUNTAIN SOILS CONTAIN ABOUT NORMAL MOISTURE. IRRIGATED SOILS ARE IN FAIR CONDITION.

This report prepored by

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

OENVER, COLORADO

STERLING/COLORADO

#### STREAMFLOW FORFCASTS (1000 Ac Et )

WATER CURRILY OUTLAND Expressed as "Poor, Fair, Average, Ex-

21KFWMLTOM LOKECA212 (1000 )	AC. FT.)			WATER SUPPLY UUILUUK cell	ent" With Respect	to Usual Supply.
	FORE-	% of	+		Flow P	eriod
FORECAST POINT	CAST	Average	Average	STREAM or AREA	Spring Season	Late Season
Big Thompson at Drake (1) Boulder at Orodell Cache La Poudre at Canyon Mouth (2) Clear Cr. at Golden(3) Saint Vrain at Lyons(4)	110 55 225 130 80	110 112 105 109 114	100 49 215 119 70	South Platte from Greeley to Ft. Morgan South Platte from Ft. Morgan to Sterling South Platte below Sterling	Avg. Avg.	Avg. Avg.

(1) Observed flow plus by—pass to power plants. (2) Observed flow minus trans—basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

#### SUMMARY of SNOW MEASUREMENTS

SOIL MOISTURE
---------------

(COMPARISON WITH PREVIOUS YEARS)					
RIVER BASIN	Number of		AR'S SNOW		
and/or	Courses		PERCENT OF		
SUB-WATERSHED	Averaged	Last Year	Average +		
Big Thompson Boulder Cache La Poudre Clear Creek Saint Vrain South Platte	5	91	114		
	3	103	112		
	8	78	111		
	6	78	91		
	3	111	114		
	3	119	110		

001201010112			
RIVER BASIN	Number of		S MOISTURE CENT OF:
	Stations	Last Year	Average +
Big Thompson Boulder Cache La Poudre Clear Creek Saint Vrain South Platte	3 1 2 2 2 2 2	97 73 92 69 89 98	110 95 91 79 117 67

#### RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

			2110 01	
RESERVOIR	Usable	U	sable Stora	ge
KESEKVOIK	Capacity	This Year	Last Year	Average +
Carter Cheesman Eleven Mile Empire	108.9 79.0 97.8 37.7	97.5 79.1 73.5 23.7	100.1 72.6 96.4 31.2	71.3 46.4 72.0 27.2
Horsetooth	143.5	106.5	JE . 3	93.6

#### RECERVOIR CTORAGE (Thousand Ac Ft ) FUR OF MONTH

MESERAOUR STOUWART (	nousanu	nu. 11./	END OF M	TONTH			
DECEDVOID	Usable	L	Usable Storage				
RESERVOIR	Capacity	This Year	Last Year	Average †			
Jackson Julesburg Prewitt Point of Rocks Riverside	35.4 28.2 32.8 70.0 57.5	32.9 19.8 22.6 63.9 55.4	34.9 19.8 19.8 69.8 56.8	20.7 14.5 49.9			
+ 1953-1967 period.							

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#### APPENDIX I

SNOW COURSE MEASUREMENTS as of March 1, 1972

NOW COURSE MEASUREME		RENT INFOR	larch 1,	1972 PAST R	ECORO
	-	SNOW	WATER CONTENT	WATER C	ONTENT HES)
SNO% COURSE	DATE OF SURVEY	(INCHES)	CHES) (INCHES) LAS		AVG. 53 67
NORTH PLATTE BASIN					
Laramie River Deadman Hill	2/29	45	13.4	17.5	12.6
McIntype Roach	NS 2/28	55	16.0		 14.4
North Platte River Cameron Pass Columbine Lodge Northgate Park View Willow Cr. Pass(B)	2/25 2/25 2/25 2/25 2/28 2/28	72 73 16 31 37	25.5 23.1 3.3 7.8 10.7	33.4 25.3 7.5 10.4 13.8	18.8 19.6 5.3 7.2 9.8
SOUTH PLATTE BASIN  Boulder Creek  Baltimore	2/28	20	6.1	6.5	5.8
Boulder Falls University Camp	2/28	40 51	12.4 15.7	11.6 15.0	9.1 15.6
Big Thompson River Deer Ridge Hidden Valley Lake Irene (B) Long's Peak Two Mile	2/29 2/25 2/27 2/25 2/29	13 32 61 42 49	3.7 7.7 19.2 10.3 14.9	3.4 10.4 22.1 10.2 15.3	3.9 7.9 18.2 8.0 10.9
Cache La Poudre  Bennett Creek  Big South Cameron Pass Chambers Lake Deadman Hill Hour Glass Lake Joe Wright Lost Lake Pine Creek Red Feather	2/26 2/28 2/25 2/28 2/29 2/26 2/25 2/28 2/28 2/28	26 1 72 25 45 23 66 38 4 22	6.2 0.4 25.5 7.2 13.4 5.9 18.9 11.1 1.1 5.2	8.3 0.7 33.4 10.1 17.5 6.7 24.9 12.8 1.5 7.3	2.4 18.8 7.2 12.6 5.1  9.6 1.6 5.6
Clear Creek  Baltimore (B)  Berthoud Falls  Empire  Grizzly Peak (B)  Loveland Lift  Loveland Pass	2/28 2/28 2/28 2/28 2/29 2/29	20 46 17 55 35 46	6.1 11.8 5.1 15.5 9.2 12.9	6.5 12.8 7.0 19.1 15.9 16.4	5.8 11.5 6.0 13.4 17.7 12.3
Saint Vrain River Copeland Lake Ward Wild Basin	2/27 2/28 2/27	19 21 42	5.1 4.4 11.2	3.4 5.4 9.9	3.7 4.8 9.7
South Platte River Como Geneva Park Horseshoe Mt. Hoosier Pass Jefferson Creek Mosquito Trout Creek Pass	2/29 2/29 2/28 2/25 2/29 2/29 2/28	18 46 50 33 43	8.3 3.5 11.9 11.3 8.2 11.3 6.2	5.3 1.9 8.1 9.6 7.8 6.6 2.1	3.1  10.5 7.4 
ARKANSAS BASIN					
Arkansas River Bigelow Divide Cooper Hill (B) East Fork Four Mile Park Fremont Pass Garfield Hermit Lake Monarch Pass Tennessee Pass Twin Lakes Tunnel	2/28 2/25 2/25 2/25 2/29 2/25 2/29 2/28 2/28 2/28	35 24 51 37 23 45 38	2.3 8.7 8.2 5.7 12.6 11.0 6.6 14.3 9.8 10.8	7.1 9.3 8.8 3.9 14.9 7.6 13.3 7.4 7.7	8.5 7.6 4.6 12.4 11.4  14.3 8.5

	cur	RENT INFOR	RMATION	PAST R	ECORD
SNOW COLINSE	OATE OF SURVEY	SNOW OEPTH (INCHES)	WATER CONTENT (INCHES)	WATER C	HES)
	3URVE¥	(INCHES)	(INCHES)	YEAR	AVG. 53 67
Cucharas River Blue Lakes Cucharas Pass LaVeta Pass (B)	2/28 2/28 2/28	0 12 26	0.0 4.4 8.4	0.9 6.1 6.2	3.5  7.8
Purgatorie River Bourbon	2/25	23	5.0	5.5	6.4
RIO GRANDE BASIN-COLO					
Alamosa River Silver Lakes Summitville	2/28 2/25	8 54	2.2 16.1	3.5 15.3	5.5 14.6
Conejos River Cumbres LaManga Platoro River Springs	2/25 2/25 2/28 2/28	40 42 39 8	12.8 12.3 12.8 2.0	13.9  11.6 3.8	16.5  13.8 5.8
Culebra River Brown Cabin Cottonwood (B) Culebra LaVeta Pass (B) Trinchera (B)	2/29 NS 2/28 2/28 2/28	15 30 26 31	4.1 9.0 8.4 7.8	0.1 5.8 6.2 7.4	 7.3 7.8
Rio Grande Cochetopa Pass Grayback Hiway Lake Humphrey Love Lake Pass Creek Pool Table Porcupine Santa Maria Upper Rio Grande Wolf Creek Pass Wolf Cr. Sum. (B)	2/25 NS 2/28 2/25 2/29 2/29 2/29 2/29 2/28 2/29 2/28 2/28	25 53 29 34 30 28 40 17 33 57 67	5.4 19.8 7.4 10.2 10.5 6.4 11.6 4.2 10.5 21.2 26.1	5.0 17.1 4.0 5.6 7.8 2.4 6.9 2.3 6.5 19.5 20.1	4.5 21.4 6.2 10.8 5.9 8.7 4.4 6.6 22.9 22.1
RIO GRANDE BASIN-N.M.					
Pecos River Panchuela	2/28	6	1.4	0.6	3.2
Rio Chama Bateman Capulin Peak Chama Divide Chamita	2/23 2/27 2/24 2/24	30 11 2 17	6.8 3.5 0.5 4.3	6.9 3.8 0.8 6.1	9.4 4.5 3.6 7.9
Rio Grande Aspen Grove Big Tesuque Blue Bird Mesa Cordova File Cabin	2/25 2/28 2/26 2/23	15 15 5 27	4.5 4.2 1.5 6.2	2.4 1.8 1.3 6.5	5.2 4.6 4.7 9.7
Elk Cabin Fenton Hill Hopewell Pajarito Peak Payrole Quemazon Rio En Medio Sandoval Taos Canyon Tres Ritos	2/26 2/24 2/28 2/29 2/29 2/28 2/29 2/24 2/24	19 39 0 20 26 24 13 5	4.8 11.1 0.0 5.4 6.8 6.3 5.1 1.6 1.9	1.2 1.3  1.8 4.8 3.9 4.7 0.7 2.2 1.5	3.3 3.9  1.5 7.8 7.7 7.9 5.0 4.4 4.8
Rio Hondo Twinning	2/24	17	4.7	3.5	
Red River Hematite Park (B) Red River	2/23 2/23	11 21	2.6 5.7	1.0	3.7 5.2

NOTE: NS - No Survey
(B) - On Adjacent Drainage

#### APPENDIX I

SNOW COURSE MEASUREMENTS as of March 1, 1972

,	SNOW COURSE MEASUREMENTS as of March 1, 1972								
ſ		DATE	SNOW		WATER		Г		
ı	SNDW CDURSE	DF SURVE *	OEPTH (INCHES)	WATER CONTENT (INCHES)	LAST YEAR	AVG 53 67			
	Animas River Cascade Lemon	2/28 2/29	27 19	8.5 6.5	6.0	10.2			
	Mineral Creek Molas Lake Purgatory Red Mt. Pass (B) Silverton Sub-Sta. Spud Mountain	2/28 2/28 2/28 2/28 2/28 2/28 2/28	36 32 53 69 22 52	11.7 10.4 19.1 25.8 6.7 20.1		11.7 11.0  23.5 5.6 19.5			
	Dolores River Lizzard Head Lone Cone Rico Telluride Trout Lake	2/29 2/29 2/29 2/28 2/28	39 39 16 23 33	13.3 13.0 5.8 6.4 9.5	13.1 14.6 5.3 8.3 13.0	5.9			
	San Juan River Chama Divide (B) Chamita (B) Upper San Juan Wolf Cr. Pass (B) Wolf Cr. Summit	2/24 2/24 2/28 2/28 2/28 2/28	2 17 60 57 67	0.5 4.3 23.5 21.2 26.1	0.8 6.1 20.7 19.5 20.1	3.6 7.9 25.2 22.9 22.1			
	GUNNISON BASIN								
	Gunnison River Alexander Lake Blue Mesa Butte Cochetopa Pass (B) Crested Butte Keystone Lake City Mesa Lakes (B) McClure Pass Park Cone Park Reservoir Porphyry Creek Tomichi	2/28 2/29 2/29 2/25 2/25 2/24 2/28 2/28 2/28 2/28 2/25 2/29 2/29	53 26 36 25 35 53 31 42 42 36 58 40 35	19.6 7.0 10.6 5.4 9.8 15.4 6.8 13.1 14.7 8.9 18.1 11.0	19.0 5.5 11.5 5.0 8.4 16.8 5.8 13.1 7.5 20.6 13.5 11.3	3.5  4.5 10.6 16.3 7.6 13.4 14.6 8.8 19.6			
	Surface Creek Alexander Lake Mesa Lakes (B) Park Reservoir	2/28 2/28 2/25	53 42 58	19.6 13.1 18.1		17.0 13.4 19.6			
	Uncompahgre River Tronton Park Red Mountain Pass Telluride (B)	2/29 2/28 2/28	27 69 23	7.6 25.8 6.4	13.0 27.2 8.3	23.5			
	COLORADO BASIN  Blue River Blue River Fremont Pass Frisco Grizzly Peak Hoosier Pass (B) Shrine Pass Snake River Summit Ranch	2/25 2/25 2/28 2/28 2/25 2/28 2/28 2/29	55 50 54 29	7.1 12.6 6.3 15.5 '1.3 16.0 6.4 7.6	7.0 14.9 6.4 19.1 9.6 17.3 9.0 7.3	12.4 6.3 13.4 10.5 13.6 6.7			

	CUI	RENT INFO	RMATION	PAST R	ECURI
SNOW CDURSE	DATE DF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT	WATER C	
	ZOHAEA	(INCHES)	(INCHES)	LAST YEAR	53 67
Colorado River					
Arrow Berthoud Pass Berthoud Summit Cooper Hill Fiddler Gulch Glenmar Ranch Gore Pass	2/24 2/25 2/28 2/28 NS 2/28 2/29	40 51 61 39 31 33	12.0 14.0 14.1 8.7 8.4 9.6	15.4 17.8 20.0 9.3 9.5 12.0	9.3 11.6 14.8 8.5 13.5 6.4 8.4
Grand Lake Lake Irene Lapland Lulu Lynx Pass McKenzie Gulch Middle Fork Milner North Inlet Pando Phantom Valley Ranch Creek Tennessee Pass(B) Vail Pass	2/29 2/27 2/29 2/29 2/28 2/27 2/28 2/27 2/28 2/27 2/24 2/28 2/28 2/28	32 61 35 58 40 27 33 42 29 33 32 32 38 48	8.1 19.2 10.3 16.9 11.0 7.2 7.5 11.7 7.9 9.2 7.7 8.1 9.8	8.5 22.1 12.7 20.4 14.6 5.7 10.9 14.3 9.2 9.5 11.5 12.3 7.4 17.7	7.4 7.9 8.5 7.1 8.5
Vasquez  Roaring Fork River Aspen Chapman Independence Pass Ivanhoe Kiln Last Chance Lift McClure Pass Nast	2/25 2/26 2/28 2/25 2/29 2/29 2/29 2/26 2/28 2/29	46 51 48 49 41 36 50 42 21	11.6 15.4 14.6 12.7 15.3 11.9 10.4 13.9 14.7 5.5	19.8 14.8 15.9 18.6 10.8 10.8 15.3 13.1 6.7	9.5 13.0  13.9 13.8  13.8 14.6 5.2
North Lost Trail  Williams Fork River Glenmar Ranch Jones Pass Middle Fork	2/28 2/28 2/24 2/28	31 43 33	8.4 11.7 7.5	9.5 18.5 10.9	6.4 10.9 7.5
Willow Creek Granby Willow Cr. Pass	2/28 2/28	31 37	8.0	7.6 13.8	6.1 9.8
Plateau Creek Mesa Lakes Park Reservoir Trickle Divide	2/28 2/25 2/25	42 58 64	13.1 18.1 20.1	13.1 20.6 22.4	13.4 19.6 21.1
YAMPA BASIN  Elk River Clark Elk River Hahn's Peak	2/29 2/29 2/29	34 51 40	8.6 16.0 11.3	9.1 18.5 14.1	11.5 15.5 
White River Burro Mountain Rio Blanco	2/24 2/25	42 46	13.0	17.9 15.6	
Yampa River Bear River Columbine Lodge(B) Dry Lake Lynx Pass (B) Rabbit Ears Yampa View	2/25 2/24 2/29 2/25 2/28	73 52 40 79 44	23.1 16.5 11.0 22.3 12.7	25.3 18.8 14.6 28.6 16.7	17.6 10.0 21.2

NOTE: NS - No Survey
(B) - On Adjacent Drainage

#### APPENDIX II

#### SOIL MOISTURE MEASUREMENTS as of March 1, 1972

STATION	DATÉ OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
NORTH PLATTE BASIN	·				
North Platte River					
Muddy Pass Willow Pass	11/3/71 11/10/71	11.1 9.5	6.8 8.3	6.2 8.1	6.4 6.7
SOUTH PLATTE BASIN					
Boulder Creek					
Alpine Camp	11/1/71	6.9	3.5	4.8	3.7
Big Thompson River				,	
Beaver Dam Guard Station Two Mile	11/2/71 11/2/71 11/2/71	7.1 6.9 9.1	5.3 3.2 5.5	5.1 4.1 5.2	3.8 3.4 5.5
Clear Creek					
Clear Creek Hoop Creek	12/20/71 11/10/71	9.5 4.9	5.3 2.6	8.1 3.4	7.1 2.9
Cache La Poudre River					
Feather Laramie Road	10/7/71 10/1/71	10.1 12.4	4.7 6.5	4.5 7.7	4.5 7.8
South Platte River					
Hoosier Pass Kenosha Pass	11/8/71 11/8/71	7.8 4.4	4.4 2.6	5.6 2.6	4.9 2.6
ARKANSAS BASIN					
Arkansas River					
Garfield Leadville Twin Lakes Tunnel	10/12/71 10/6/71 10/6/71	6.7 7.8 4.5	4.2 3.4 0.9	4.4 3.3 1.7	3.9 4.2 2.3
RIO GRANDE BASIN - COLORADO					
Conejos River					
Mogote	10/20/71	10.7	5.0	4.9	5.5
Rio Grande					
Bristol View LaVeta	10/21/71 10/20/71	6.1 11.9	3.1 7.1	5.0 9.4	3.9 7.2
RIO GRANDE BASIN - NEW MEXICO					
Rio Chama					
Bateman Chamita	2/23/72 2/24/72	6.7 8.0	4.2	1.3	3.2 4.1
Rio Grande					
Aqua Piedra Big Tesuque Rio En Medio Taos Canyon	2/24/72 NS NS 2/24/72	7.2 3.3	4.2 2.5	4.4 0.9 0.4 1.6	3.7 1.9 1.2 2.3
Red River					
Red River Summit	2/23/72	4.8	2.4	1.6	- 1.9

ALL PROFILES 4 FEET DEEP

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
ANIMAS - SAN JUAN BASINS					
Animas River					
Cascade Mineral Creek Molas Lake	11/2/71 11/1/71 11/1/71	9.1 5.7 9.4	5.5 3.1 5.5	5.5 3.5 6.6	6.3 3.7 4.6
Dolores River					
Dolores Lizzard Head Rico	10/28/71 10/28/71 10/28/71	19.6 11.8 13.8	10.6 3.9 8.5	8.0 4.6 10.9	6.7 8.3 9.9
GUNNISON BASIN					
Gunnison River					
King	10/12/71	3.3	2.1	2.3	1.9
COLORADO BASIN (Mainstem)					
Blue River					
Blue River	11/8/71	4.2	2.7	3.4	2.8
Colorado River					
Berthoud Pass Gore Grand Mesa Ranch Creek Vail	11/10/71 11/8/71 11/8/71 11/10/71 10/25/71	3.9 4.9 12.5 8.7 12.3	2.5 3.3 9.9 4.7 4.9	3.1 3.0 11.1 5.7 7.0	2.8 2.5 9.3 6.0 6.9
Roaring Fork River	1				
Placita	11/12/71	9.3	5.8	7.0	5.2
YAMPA BASIN					
Yampa River					
Hahn's Peak	11/3/71	19.0	11.3	12.7	11.8

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#### LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

STATE

Colorado State Engineer New Mexico State Engineer Nebraska State Engineer Colorado State University Experiment Station Rocky Mountain Forest and Range Experiment Station

FEDERAL

Department of Agriculture

Forest Service Soil Conservation Service

Department of Interior

Bureau of Reclamation Geological Survey National Park Service Indian Service

Department of Commerce

National Weather Service

War Department

Army Engineer Corps

Atomic Energy Commission

INVESTOR OWNED UTILITIES

Colorado Public Service Company Public Service Company of New Mexico

MUNICIPALITIES

City of Denver City of Greeley
City of Boulder City of Fort Collins

WATER USERS ORGANIZATIONS

Arkansas Valley Ditch Association Colorado River Water Conservation District

IRRIGATION PROJECTS

Farmers Reservoir and Irrigation Company
San Luis Valley Irrigation District
Santa Maria Reservoir Company
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Uncompangre Valley Water Users' Association
Twin Lakes Reservoir and Canal Company
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